

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P200197

Luminaire Tested: **GAP-AF-01-LED-U-T3R-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200197
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAP-AF-01-LED-U-T3R-800
Description: GALLEON PEDESTRIAN LUMINAIRE
(1) 70 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5371.5 lumens
Efficiency: N/A
Efficacy: 122.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



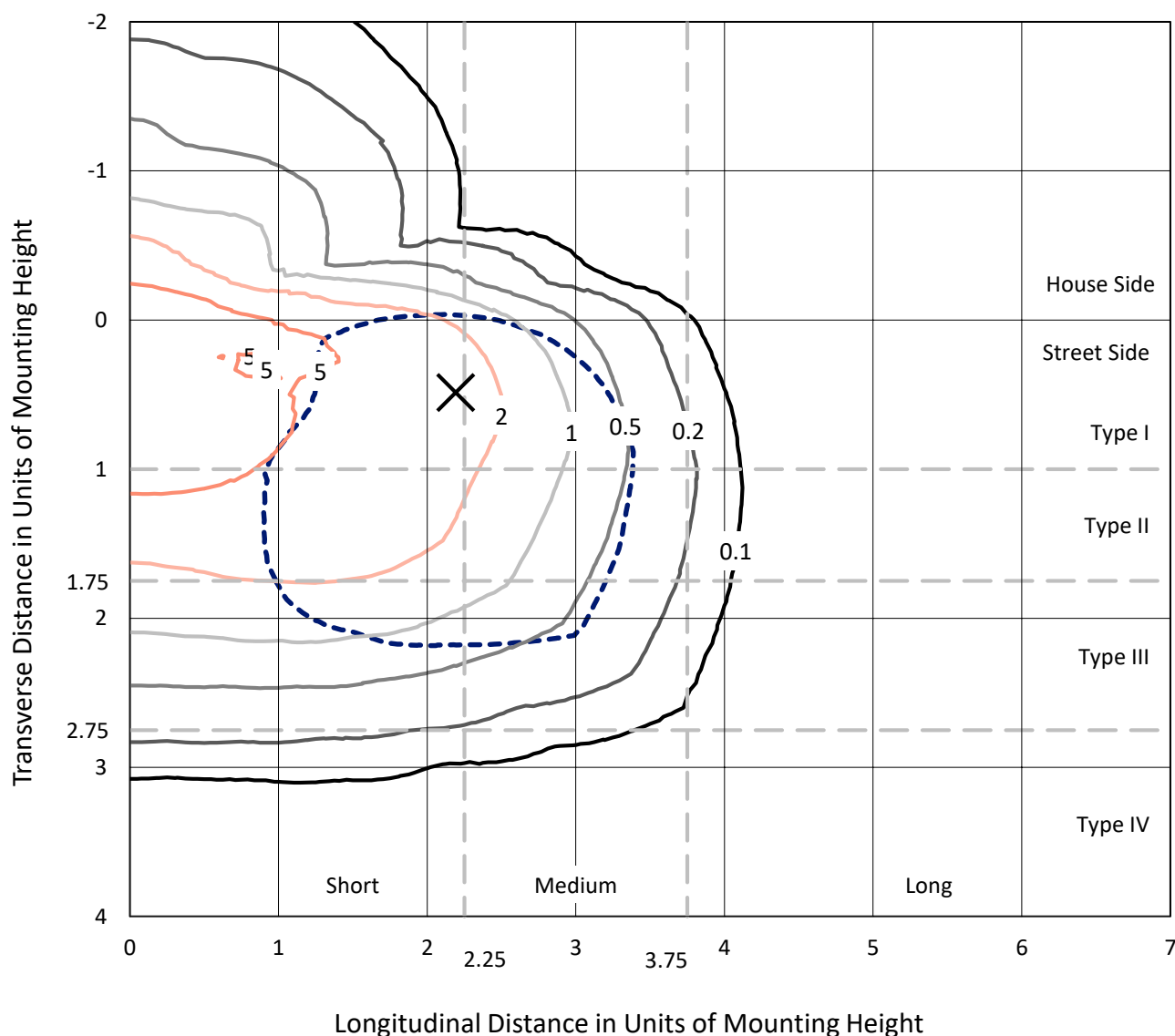
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

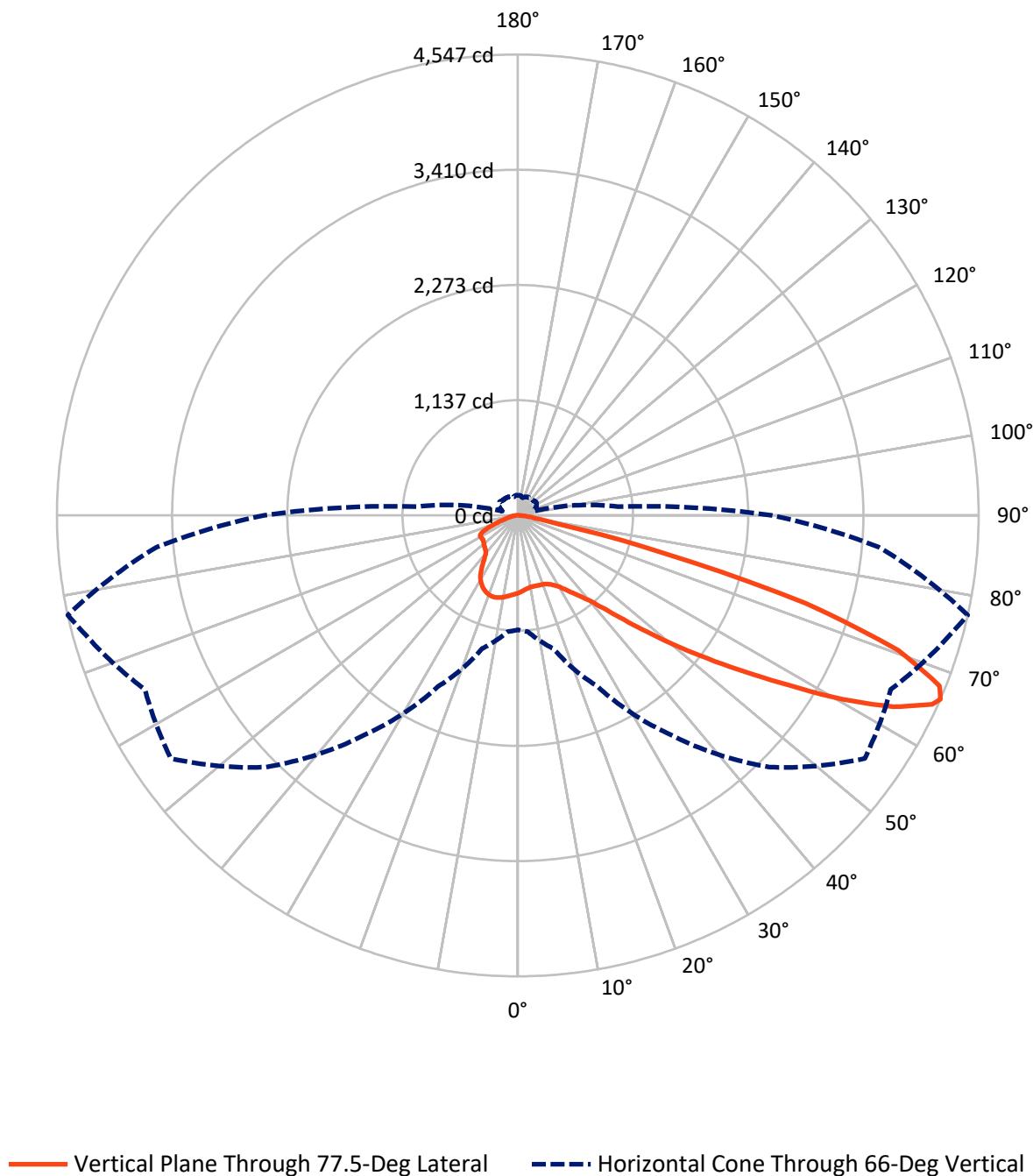


Based on 10 foot mounting height. Maximum calculated value = 9.4 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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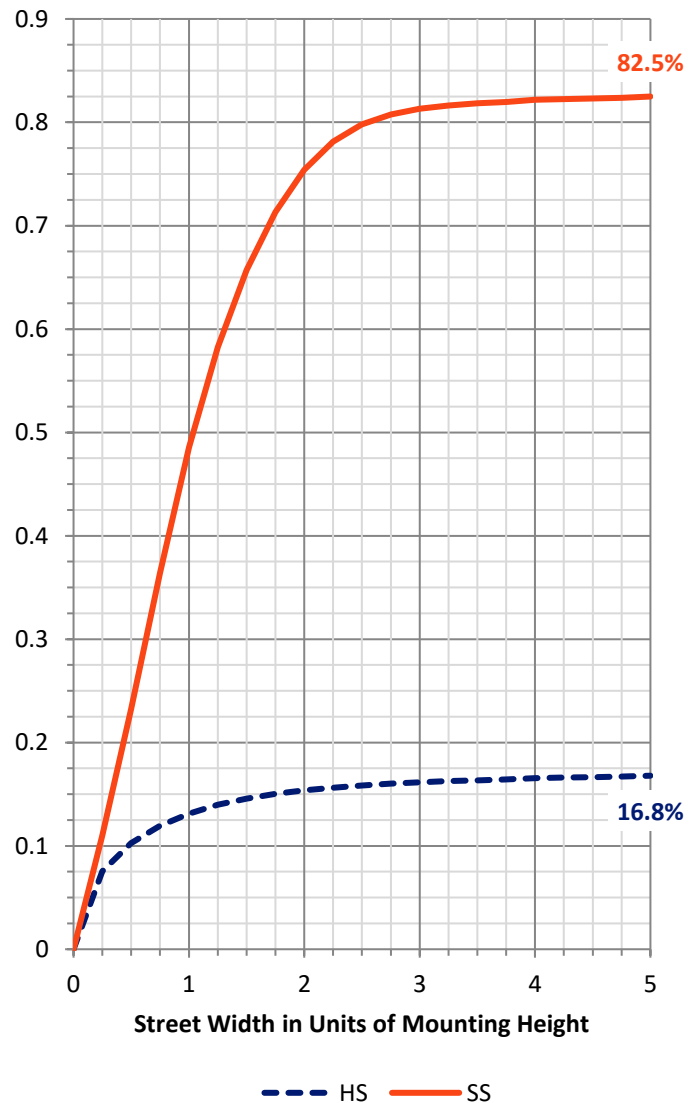
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	917.7	0.0	917.7
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	4453.8	0.0	4453.8
	% Fixture	82.9	0.0	82.9
Total	Lumens	5371.5	0.0	5371.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.4	1.3
10°-20°	192.9	3.6
20°-30°	329.3	6.1
30°-40°	527.1	9.8
40°-50°	814.3	15.2
50°-60°	1155.0	21.5
60°-70°	1545.1	28.8
70°-80°	671.0	12.5
80°-90°	68.4	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5371.5	100.0
0°-180°	5371.5	100.0

Coefficient of Utilization



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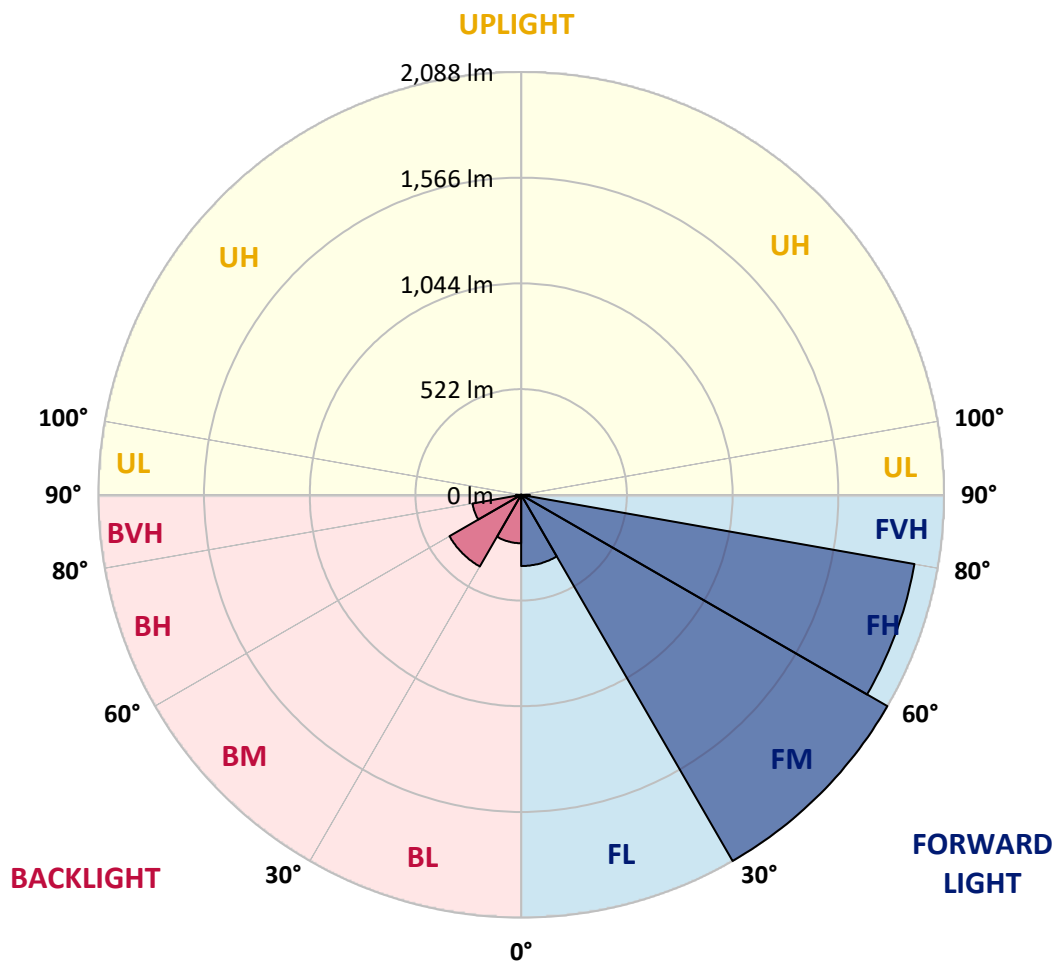
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	351.6	6.5			
FM	(30°-60°)	2087.7	38.9			
FH	(60°-80°)	1971.7	36.7			G2/5000
FVH	(80°-90°)	42.9	0.8			G1/100
BL	(0°-30°)	239.0	4.4	B1/500		
BM	(30°-60°)	408.8	7.6	B1/1000		
BH	(60°-80°)	244.4	4.6	B1/500		G1/500
BVH	(80°-90°)	25.5	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	765.5	765.5	765.5	765.5	765.5	765.5	765.5	765.5	765.5	765.5	765.5
2.5°	677.2	681.7	685.5	689.1	696.2	707.9	721.3	732.2	748.0	751.1	759.3
5°	615.0	615.0	618.0	623.4	633.0	650.5	668.8	693.2	727.4	735.5	757.8
7.5°	584.7	585.0	586.8	591.4	599.8	615.7	635.8	664.4	710.8	724.4	762.4
10°	596.0	593.4	589.6	587.3	588.6	597.9	616.9	649.0	700.7	718.0	772.5
12.5°	658.4	653.6	640.4	622.9	606.1	599.2	610.4	641.6	696.4	716.5	786.0
15°	760.4	758.3	733.8	697.4	656.8	622.9	615.2	638.8	696.9	718.2	802.0
17.5°	888.3	885.5	853.0	800.3	734.0	667.8	632.2	641.1	698.7	721.3	817.5
20°	1017.5	1008.8	973.8	910.9	825.8	729.0	660.4	646.9	701.0	724.6	833.7
22.5°	1113.9	1106.8	1075.3	1014.2	916.3	799.7	698.2	657.1	708.4	734.3	853.8
25°	1198.7	1199.2	1168.0	1108.9	1007.6	874.8	747.0	684.3	727.1	754.0	881.2
27.5°	1303.5	1297.4	1268.3	1209.6	1097.9	950.7	805.8	721.6	755.0	782.3	917.3
30°	1428.9	1424.6	1390.8	1324.3	1198.2	1032.3	873.1	765.0	791.2	819.3	964.4
32.5°	1576.4	1574.3	1539.3	1453.8	1314.0	1128.1	952.1	822.4	845.0	874.1	1032.3
35°	1749.5	1749.8	1708.3	1605.5	1440.6	1239.8	1041.6	896.2	910.4	940.8	1113.0
37.5°	1856.0	1869.0	1853.5	1748.7	1583.9	1364.7	1157.9	994.1	985.0	1015.7	1199.5
40°	1878.9	1894.6	1943.6	1890.3	1744.3	1502.2	1260.9	1088.3	1076.9	1114.4	1310.9
42.5°	1846.9	1868.7	1972.2	2009.9	1914.7	1671.8	1399.5	1228.2	1213.7	1264.2	1449.4
45°	1827.9	1844.1	1964.0	2072.1	2062.4	1863.4	1575.9	1403.8	1398.5	1464.7	1609.4
47.5°	1794.9	1809.6	1924.8	2086.5	2149.2	2039.0	1787.8	1618.5	1628.9	1715.7	1789.9
50°	1812.7	1818.7	1881.2	2049.7	2174.3	2167.7	2024.6	1867.2	1902.8	2011.1	1994.1
52.5°	1810.1	1825.9	1876.1	1989.3	2177.7	2247.1	2257.9	2144.6	2219.5	2343.9	2220.7
55°	1463.4	1492.4	1816.5	1974.1	2189.3	2325.1	2465.4	2437.0	2576.6	2721.6	2476.6
57.5°	1397.5	1415.7	1595.4	2006.0	2251.2	2473.8	2696.4	2758.8	2992.3	3160.6	2788.3
60°	1384.5	1407.1	1593.1	2045.2	2376.8	2716.1	3038.8	3148.4	3498.2	3682.4	3149.7
62.5°	1344.2	1368.5	1578.1	2040.1	2555.2	3051.5	3477.1	3562.6	3977.8	4157.1	3451.9
65°	1216.2	1239.1	1456.1	1958.0	2675.6	3409.3	3995.9	3942.4	4356.5	4491.3	3602.7
66°	1128.6	1151.0	1359.9	1861.7	2647.7	3510.9	4179.6	4059.8	4441.2	4546.8	3573.3
67.5°	968.5	986.0	1173.1	1645.6	2499.2	3539.3	4334.1	4148.2	4450.1	4487.5	3405.0
70°	611.9	616.9	762.4	1136.0	1891.8	3069.5	4098.9	3928.8	4083.2	3982.1	2854.5
72.5°	265.5	263.7	366.0	577.9	1071.0	2059.6	3315.7	3241.8	3203.0	2972.5	1998.2
75°	147.7	149.8	190.1	268.2	435.3	1011.7	2169.0	2075.6	1752.5	1495.3	906.0
77.5°	118.6	121.3	157.6	190.4	195.4	352.8	1015.0	825.8	497.2	399.0	251.7
80°	93.7	98.7	137.6	148.2	131.8	145.5	328.0	262.2	196.7	180.4	130.4
82.5°	74.1	77.6	118.0	112.2	92.2	98.0	157.1	153.0	127.9	116.5	75.4
85°	53.3	59.9	97.0	84.5	60.4	66.0	104.3	100.0	73.3	59.9	33.2
87.5°	21.8	28.4	68.5	56.1	33.8	30.7	52.1	49.0	34.8	25.4	16.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	765.5	765.5	765.5	765.5	765.5	765.5	765.5	765.5	765.5	765.5	765.5
2.5°	764.7	770.8	778.7	783.5	786.0	787.8	790.6	790.3	791.2	791.4	792.4
5°	769.8	779.9	791.4	794.4	794.4	791.6	788.8	784.3	782.5	781.9	782.5
7.5°	783.0	794.1	804.0	800.5	792.9	781.7	767.2	754.5	747.7	745.4	744.9
10°	799.7	813.1	817.2	803.8	781.4	754.5	725.9	705.0	693.2	689.9	688.9
12.5°	820.0	832.7	827.2	798.7	757.4	713.9	674.3	641.1	616.2	608.3	607.8
15°	842.4	852.2	832.7	783.0	721.3	657.3	586.8	529.5	498.5	488.6	487.8
17.5°	863.2	868.3	829.4	755.6	668.3	564.7	471.1	426.9	416.2	418.8	419.3
20°	881.0	881.0	818.3	716.3	584.7	442.6	383.5	382.7	390.4	397.9	399.5
22.5°	900.5	888.8	798.7	660.6	466.5	362.1	353.5	360.7	369.3	377.7	378.9
25°	924.6	895.2	771.5	576.4	366.7	328.9	332.3	338.1	342.4	347.7	348.5
27.5°	951.5	903.3	735.8	460.4	318.2	308.1	310.7	312.7	312.2	314.3	314.8
30°	983.8	912.7	686.8	359.9	298.2	290.3	285.8	284.0	284.0	287.3	288.6
32.5°	1026.8	926.6	616.5	308.4	288.6	277.6	262.9	256.4	258.9	270.1	272.6
35°	1074.3	941.6	521.3	290.8	286.5	271.8	249.0	236.8	237.0	247.5	250.7
37.5°	1126.2	960.7	417.0	287.6	291.1	272.1	241.6	224.8	218.0	218.0	219.3
40°	1192.4	980.2	337.6	289.8	300.7	275.1	237.8	215.4	196.2	196.7	197.7
42.5°	1278.7	997.0	294.9	294.7	312.4	279.2	237.5	203.1	186.3	197.7	208.1
45°	1374.6	1005.4	276.1	299.0	321.8	281.7	233.5	201.0	187.6	221.6	241.4
47.5°	1485.0	1000.4	265.8	300.5	324.1	281.7	228.9	205.8	196.4	256.6	279.7
50°	1606.0	986.5	255.5	297.5	323.4	281.2	233.2	210.6	199.8	262.7	278.7
52.5°	1748.4	974.9	244.9	290.8	318.0	278.4	238.3	208.6	189.3	238.9	250.0
55°	1910.9	978.1	233.0	281.5	309.6	273.1	236.5	200.5	178.4	210.4	217.3
57.5°	2118.5	1017.5	218.8	269.5	298.2	264.2	230.2	196.7	175.1	190.9	194.9
60°	2350.2	1086.1	201.0	257.6	284.0	250.0	225.4	198.5	176.7	189.3	191.4
62.5°	2520.2	1125.9	185.8	240.1	264.7	234.3	219.3	200.8	180.8	194.7	194.2
65°	2566.5	1060.4	166.7	214.5	238.6	217.8	211.6	203.3	182.5	199.0	196.7
66°	2501.7	989.8	158.4	202.5	225.4	209.6	207.9	203.1	181.7	199.5	195.7
67.5°	2344.6	845.2	143.9	185.1	204.3	197.4	201.7	200.8	179.7	199.0	193.6
70°	1912.1	576.6	123.1	154.1	170.0	173.9	190.1	192.6	173.1	190.1	178.4
72.5°	1336.0	351.3	108.8	119.6	137.6	148.2	174.1	181.5	164.2	166.0	154.8
75°	645.7	186.6	98.7	92.7	106.9	123.9	154.8	166.2	150.3	138.8	134.7
77.5°	201.2	114.0	83.8	74.6	83.8	100.0	129.4	145.7	133.8	116.2	114.7
80°	108.1	83.8	64.4	59.9	66.3	78.5	101.8	121.5	115.0	104.3	93.2
82.5°	71.3	54.3	47.7	46.4	50.5	59.9	75.6	100.8	100.8	89.3	65.0
85°	36.8	33.2	32.7	32.7	35.3	39.9	51.6	77.6	82.8	47.2	39.1
87.5°	18.3	19.0	17.8	18.5	19.8	19.5	24.7	39.1	46.7	28.6	23.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)